AUTODOC CLUB

How to change engine oil and filter on **Mercedes W210 diesel** – replacement guide

VIDEO TUTORIAL



Important!

This replacement procedure can be used for:
MERCEDES-BENZ SPRINTER 3,5-t Platform/Chassis (906) 313 CDI 2.2 4x4 (906.131, 906.133, 906.135), MERCEDES-BENZ C-Class T-modell (S203) C 220 CDI (203.208), MERCEDES-BENZ E-Class T-modell (S210) E 270 T CDI, MERCEDES-BENZ C-Class Saloon (W202) C 220 CDI (202.133), MERCEDES-BENZ C-Class T-modell (S202) C 220 T CDI (202.193), MERCEDES-BENZ E-Class Saloon (W210) E 220 CDI (210.006), MERCEDES-BENZ E-Class T-modell (S210) E 220 T CDI (210.206), MERCEDES-BENZ E-Class Saloon (W210) E 200 CDI (210.007), MERCEDES-BENZ C-Class Saloon (W202) C 200 CDI (202.134), MERCEDES-BENZ C-Class T-modell (S202) C 200 T CDI (202.194), MERCEDES-BENZ E-Class T-modell (S211) E 220 T CDI, MERCEDES-BENZ E-Class Saloon (W211) E 220 CDI, MERCEDES-BENZ V-Class (W638/2) V 200 CDI (638.294), MERCEDES-BENZ V-Class (W638/2) V 220 CDI (638.294), MERCEDES-BENZ VITO Bus (638) 108 CDI 2.2 (638.194), (+ 172)

The steps may slightly vary depending on the car design.

REPLACEMENT: ENGINE OIL AND FILTER – MERCEDES W210. TOOLS YOU'LL NEED:



- Wire brush
- All-purpose cleaning spray
- Torque wrench
- Drive socket # 13
- Oil filter cup socket 76-14F
- Ratchet wrench
- Flat screwdriver
- Funnel
- Oil drain pan
- Fender cover

BUY TOOLS

Replacement: engine oil and filter – Mercedes W210. Tip:

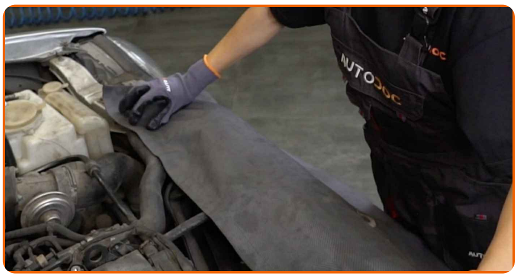
- Replace the oil filter every time when changing motor oil.
- Wear gloves to prevent contact with hot liquid.
- All work should be done with the engine stopped.

REPLACEMENT: ENGINE OIL AND FILTER – MERCEDES W210. USE THE FOLLOWING PROCEDURE:

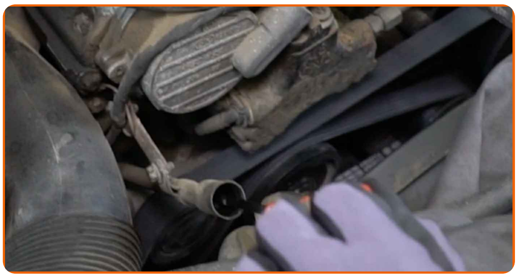
1 Open the bonnet.



2 Use a fender protection cover to prevent damaging paintwork and plastic parts of the car.



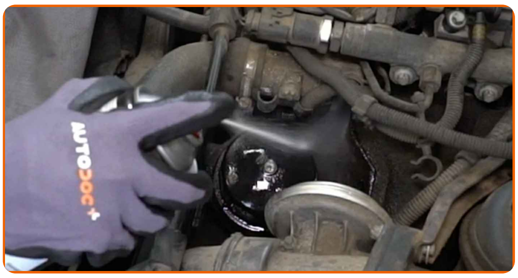
3 Pull up the oil dipstick.



4 Unscrew the oil filler plug.



5 Clean the oil filter housing cap. Use all-purpose cleaning spray.



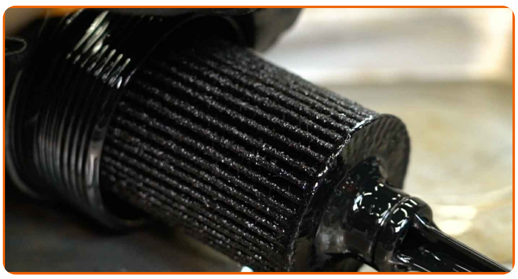
6 Unscrew the filter housing cap together with the old filter element. Use the 76-14F socket. Use a ratchet wrench.



7 Take the oil filter out of its housing.



8 Put the old oil filter in the container.



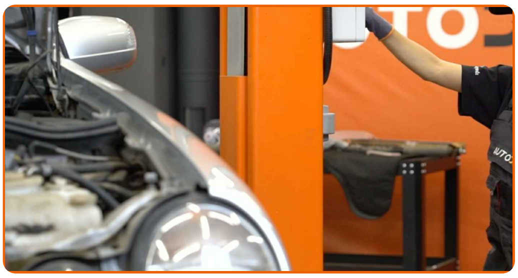
9

Cover the oil filter housing with a clean cloth to prevent dirt and foreign objects from getting into the system.



10

Lift the car using a jack or place it over an inspection pit.



Replacement: engine oil and filter – Mercedes W210. AUTODOC experts recommend:

- The vehicle must be on a level surface, but if it is at an angle, the drain plug must be at the lowest point.

11

Clean the area of the oil pan drainage hole. Use a wire brush. Use all-purpose cleaning spray.



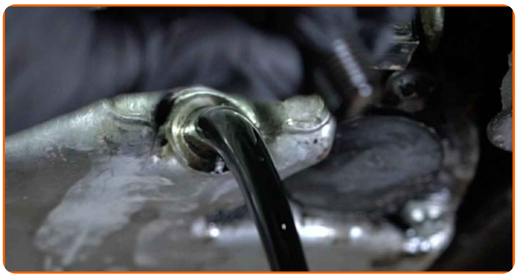
12 Put a waste oil container with at least 7 l capacity under the drainage hole.



13 Unscrew the drain plug. Use a drive socket #13. Use a ratchet wrench.



14 Drain the used oil.



Replacement: engine oil and filter – Mercedes W210. AUTODOC recommends:

- Caution! The oil may be hot.
- Wait until the oil has completely drained from the drainage hole.

15 Remove old o-rings from the oil filter cover.



16 Detach the oil filter from the filter cover. Use a flat screwdriver.



17 Clean the oil filter housing cap. Use all-purpose cleaning spray.



18 Install new O-rings and a new oil filter to their mounting seats on the filter cover.



19 Clean the area of the oil pan drainage hole. Use all-purpose cleaning spray.



20 Screw in the new drainage plug and tighten it. Use a drive socket #13. Use a torque wrench. Tighten it to 30 Nm torque.



21 Clean the area of the oil pan drainage hole. Use all-purpose cleaning spray.



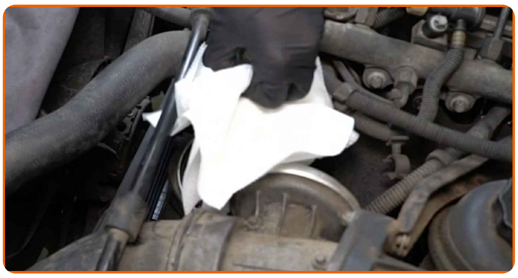
22 Lower the car.



23 Lubricate the rubber seal of the new filter with a little amount of fresh oil.



24 Remove the cloth from the oil filter housing.



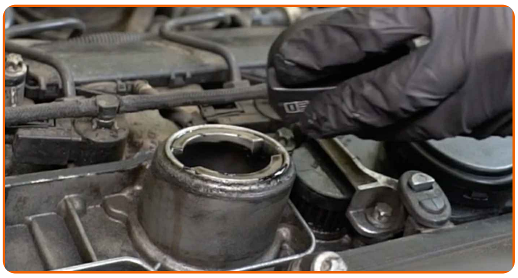
25 Install the cover of the oil filter housing and screw it on.



26 Tighten the oil filter cap. Use the 76-14F socket. Use a torque wrench. Tighten it to 25 Nm torque.



27 Remove the oil filler cap.



28 Insert the funnel.



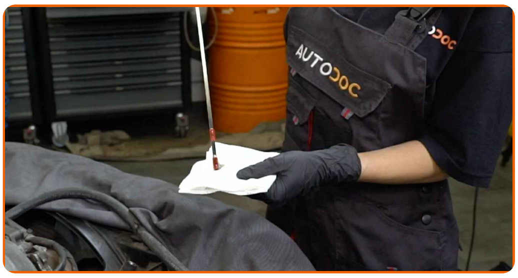
29 Pour oil into the engine through the filler. Required amount of oil: 7 l.



AUTODOC recommends:

- Use the oil recommended by the manufacturer.

30 Check the oil level using the dipstick.



Replacement: engine oil and filter – Mercedes W210. Professionals recommend:

- Top up oil if necessary.
- The oil level should be between the Min and Max marks.

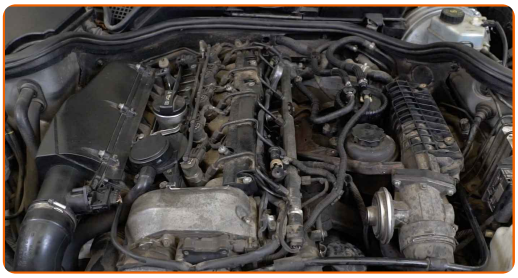
31 Install the oil filler cap.



32 Tighten the oil filler cap.



33 Run the engine for a few minutes.



34 After the oil pressure warning light goes out, stop the engine.

Replacement: engine oil and filter – Mercedes W210. Tip from AUTODOC:

- Note that oil pressure warning light, which indicates insufficient pressure in the lubrication system, may be on for a longer time than usual. After a few seconds, the oil will fill all the channels, and the light will go out.

35 Check the oil level with a dipstick 5 minutes after turning the engine off and add oil if necessary.



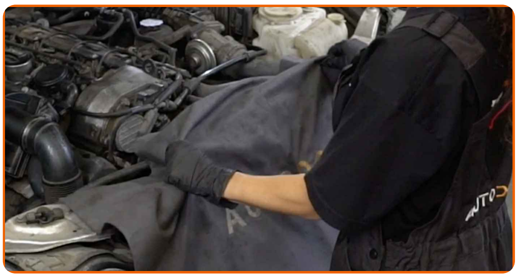
Please note!

- The oil level should be between the Min and Max marks.

36 Make sure that the oil filler cap is properly tightened.

37 Check the threaded plug of the drainage hole and the oil filter seal for tightness. If necessary, carefully tighten them up.

38 Remove the fender protection cover.



39 Close the bonnet.



Replacement: engine oil and filter – Mercedes W210. Professionals recommend:

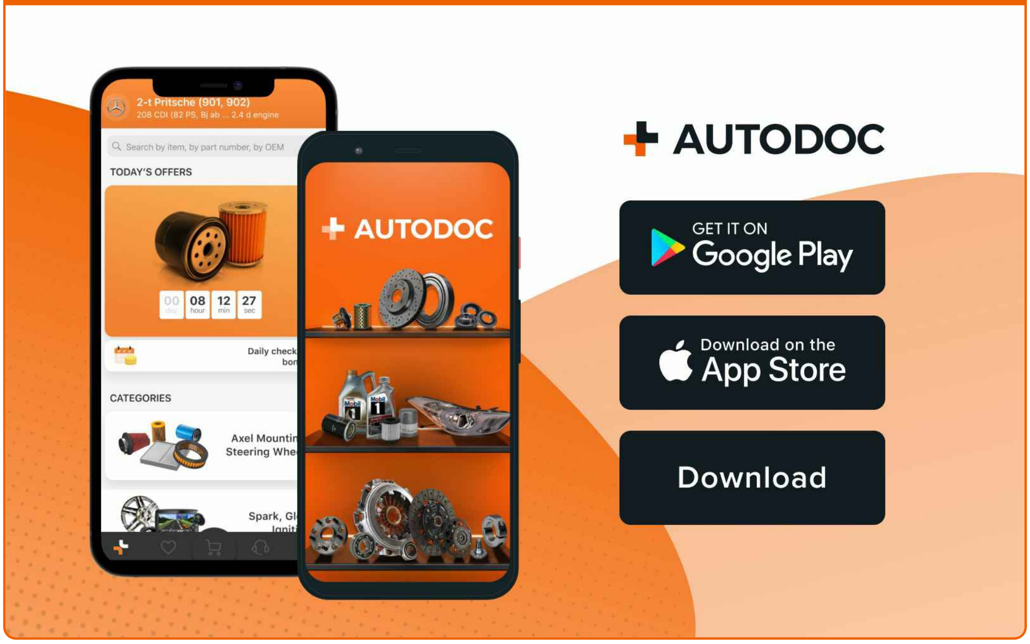
- To protect the environment from pollution, be sure to dispose of the used filters at special collection points.

WELL DONE!

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